WBLE-SL ► UECM3463-202305-EZZ ► Quizzes ► 202306UECM34630E3b ► Review of preview Update this Qui				
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	Saturday, 26 August 2023, 11:52 PM			
Completed on Time taken	Saturday, 26 August 2023, 11:52 PM			
Marks				
Grade	out of a maximum of 10 (0%)			
1 🐷 Marks: 1		f the excess of aggregate claims above 1,070, subject to maximum payment of 398. For aggregate claims, S, you are given:		
Mdrks: 1	 E[(S-1,070)₊] = 450 E[(S-2,140)₊] = 225 			
		te claim amount between 1,070 and 2,140 is zero.		
	Determine the total amount of claim	ns the reinsurer expects to pay		
	Answer:	y		
		^		
	Make comment or override grade			
	Incorrect Correct answer: 83.691589			
	Marks for this submission	n: 0/1.		
2 🕏		on with both frequency and severity having discrete distribution.		
Marks: 1	For frequency	$P_N(z) = 0.33 + 0.67[e^{3.49z}-1]/[e^{3.49}-1]$		
	For Severity			
	Calaulata tha Mariana af tha annua	$P_X(z) = 0.52 + 0.18z + 0.18z^2 + 0.08z^3 + 0.04z^4$		
	Calculate the Variance of the aggreg	,die iusses		
	Answer:			
	Allswer:	X		
	Make comment or override grade			
	Incorrect			
	Correct answer: 7.7486 Marks for this submission	n·		
	riarito for tino submission	11 0/21		
3 🗑	For a certain insurance, individual lo	osses in 2020 were Pareto distributed with parameters α = 5 and θ= 1100. A deductible of 110.0 is applied to each loss. In 2021, individual losses have increased 8%. A deductible of 110.0 is still applie	ed to	
Marks: 1 For a certain insurance, individual losses in 2020 were Pareto distributed with parameters d = 5 and 0 = 1100. A deductible of 110.0 is applied to each loss. In 2021, individual losses have increased 8%. A deductible of 110.0 is still applied to each loss. Determine the standard deviation of amount paid per loss.				
	Answer:	Y		
		<u> </u>		
	Make comment or override grade			
	Incorrect Correct answer: 140282.11			

Marks for this submission: 0/1.					
4 🗹 Marks: 1	Let the frequency distribution be no	egative binomial with $r = 4$ and $\beta = 2$. Let the severity distribution has the exponential distribution with mean 28. De	etermine F _S (38)		
	Answer:		X		
	Make comment or override grade				
	Incorrect Correct answer: 0.0754				
	Marks for this submission	on: 0/1.			
5 🕏	Claim sizes follow an exponential d	istribution with θ =16.00. Claim counts are independent of claim sizes, and have the following distribution:			
Marks: 1		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	Calculate F _S (8)				
	Answer:				
	Allswei .		X		
	Make comment or override grade Incorrect				
	Correct answer: 0.507952 Marks for this submission	on: 0/1			
	ridiks for this submissio	ni. 0/ 1.			
6 🗹 Marks: 1	A random variable has an exponent	tial distribution with mean 90. It is to be discretized using the method of rounding with span 60. Determine the mea	on of the discretized distribution		
	Answer:		X		
	Make comment or override grade				
	Incorrect Correct answer: 88.354688				
	Marks for this submission	on: 0/1.			
7 🕏 Marks: 1	Prescription drug losses, S, are mo the number of claims has a geomet with mean 8.50, and the amount of Calculate E[(S-670)+].	tric distribution			
	Answer:				
	Mala and a superior of the sup		^		
	Make comment or override grade Incorrect				
	Correct answer: 1727.679837 Marks for this submission	on: 0/1.			
8 👺 Marks: 1		concert hall for losses due to power failure. You are given:			
	There is an annual deductible				
	Calculate the expected amount of o	claims paid by the insurer in one year			
	Answer:		X		
	Make comment or override grade				

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Incorrect Correct answer: 17.692284

Marks for this submission: 0/1.

9 ☑ Marks: 1	Claim counts follow a Poisson distribution with mean 2. Claim sizes follow an exponential distribution with θ = 1000. This severity distribution is discretized using the method of rounding with span 80. Claim counts and claim sizes are independent. A stop-loss reinsurance contract has a deductible of 184.0. Calculate expected losses paid by the reinsurance contract.		
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 2010.5805		
	Marks for this submission: 0/1.		
10 🔄 Marks: 1	A company provides insurance to a concert hall for losses due to power failure. You are given:		
Pidiks. 1	 The number of power failures in a year has a Binomial distribution with parameters m = 2 and q = 0.65. The distribution of loss amount due to a single power failure follows a gamma distribution a = 2 and θ = 11. There is an annual deductible of 24. 		
	Calculate the expected amount of claims paid by the insurer in one year		
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 67.753551		
	Marks for this submission: 0/1.		
11 🐷	A stop-loss reinsurance pays 85% of the excess of aggregate claims above 1,000, subject to maximum payment of 468. For aggregate claims, S, you are given:		
Marks: 1	 E[(S-1,000)₊] = 400 E[(S-2,000)₊] = 200 		
	• The probability of an aggregate claim amount between 1,000 and 2,000 is zero.		
	Determine the total amount of claims the reinsurer expects to pay		
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 93.6		
	Marks for this submission: 0/1.		
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